

What is claimed is:

1. A method for sending personal information in a subscriber-based ringback tone service comprising the steps of:

5 a home location register providing a call-terminating exchanger with first information about whether or not a registered ringback tone is to be replaced and second information for routing to sound providing means when a calling terminal is registered in the call-terminating exchanger;

10 the call-terminating exchanger requesting a call connection to the sound providing means based on the first and the second information when a calling terminal requests a call to a called terminal; and

15 the sound providing means call-connecting to the calling terminal, detecting a specific sound set corresponding to the called terminal, and providing the calling terminal with the detected specific sound when the request of the call connection is received,

20 wherein the specific sound is generated by combining a subscriber information sound for specific information, which can identify the called subscriber or can represent the subscriber's character, with a common ringback tone replacement sound set by the called subscriber.

2. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 1, characterized in that text information of the personal information sound is converted into a voice by a text-to-speech engine in a web server or WAP server.

3. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 1, characterized in that the personal information sound is inputted as a voice via an ARS.

5

4. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 3, characterized in that the personal information sound is modulated by a voice modulation device.

10

5. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 1, characterized in that the specific information includes at least one of the called subscriber's phone number, name, nick name and character.

15

6. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 1, characterized in that the combination includes one or more among:

(personal information sound)+(general ringback tone); (personal information sound)+(replacing ringback tone)+(personal information sound); (replacement sound)+(personal information sound)+(replacement sound); (personal information sound)+(replacement sound 1)+(replacement sound 2)+ (personal information sound); (personal information sound 1)+(replacement sound 1)+(personal information sound 2)+(replacement sound 2); and (replacement sound 1)+(personal information sound 1)+(replacement sound 2)+(personal information sound 2).

7. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 1, characterized in that the personal information sound is different by time zone.

5

8. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 1, characterized in that the replacement sound is different by time zone.

10

9. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 1, characterized in that the replacement sound is at least one among a basic replacement sound which is not classified by caller; a replacement sound which is classified by caller; and a replacement sound which is set by time zone.

15

10. A method for transmitting personal information in a subscriber-based ringback tone service comprising the steps of:

a call-originating exchanger requesting location information to a home register when a calling terminal requests a call to a called terminal;

a home location register requesting routing information of the called terminal to the call-terminating exchanger and providing the call-terminating exchanger with the routing information, the first information and the second information from the call-terminating exchanger if the request for the location information of the called terminal is received, wherein the first information concerns about whether or not the ringback tone correspondingly set in the called terminal is to be replaced and the second

information is for routing to a sound providing means;

the call-originating exchanger requesting a call connection to the sound providing means based on the first and the second information; and

a sound providing means call-connecting to the calling terminal, detecting a
5 specific sound which is correspondingly set to the called terminal to provide the calling terminal with the detected specific sound if the request for the call connection is received,

wherein the specific sound is generated by combining personal information sound for specific information, which can identify the called subscriber or can represent
10 the character of the called subscriber, with the ringback tone replacement sound which is set by the called subscriber.

11. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 10, characterized in that text information of the
15 personal information sound is converted into a sound by a text-to-speech engine.

12. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 11, characterized in that the personal information sound is inputted via the ARS.

20 13. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 12, characterized in that the personal information sound is modulated by a voice modulation device.

14. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 10, characterized in that the specific information includes at least one of the called subscriber's phone number, name, nickname and character.

5

15. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 10, characterized in that the combination includes at least one among:

(personal information sound)+(general ringback tone); (personal information sound)+(replacement sound)+(personal information sound); (replacement sound)+(personal information sound)+(replacement sound);

(personal information sound)+(replacement sound 1)+(replacement sound 2)+(personal information sound); (personal information sound 1)+(replacement sound 1)+(personal information sound 2)+(replacement sound 2); and

(replacement sound 1)+(personal information sound 1)+(replacement sound 2)+(personal information sound 2).

16. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 10, characterized in that the personal information sound is different by time zone.

17. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 10, characterized in that the replacement sound is different by time zone.

18. The method for sending personal information in a subscriber-based ringback tone service as claimed in claim 10, characterized in that the replacement sound is at least one or more among a basic replacement sound which is not classified by callers; a replacement sound which is classified by callers; and a replacement sound which is set by time zone.

19. An apparatus for transmitting personal information in a subscriber-based ringback tone service comprising:

10 a home location register for providing first information about whether or not the ringback tone set in the profile of the called terminal of the call-terminating exchanger is replaced and second information for routing to sound providing means when the called terminal is registered in the call-terminating exchanger;

a call-terminating exchanger for requesting a call connection to the sound providing means based on the first and the second information if a request for a call to the called terminal is received; and

sound providing means for call connecting with the calling terminal, detecting a specific sound which is correspondingly set to the called terminal to provide the calling terminal with the detected specific sound if the request for the call connection is received from the call-terminating exchanger, wherein the specific sound is generated by combining personal information sound for specific information with the common ringback tone replacement sound which is set by the called subscriber.

20. The apparatus for transmitting personal information in a subscriber-based

ringback tone service as claimed in claim 19, characterized in that the apparatus further comprises a web server connected to the Internet and communicates with the sound providing means via a gateway, wherein the web server comprises a TTS engine for changing text of specific information which is inputted by a called subscriber and which
5 can identify the called subscriber or can represent the character of the called subscriber, and the sound providing means generates a specific sound by combining the personal information sound transmitted from the web server with the ringback tone replacement sound set by the called subscriber to provide the calling terminal with the specific sound as the replacement sound through the call-terminating exchanger.

10

21. The apparatus for transmitting personal information in a subscriber-based ringback tone service as claimed in claim 19, characterized in that the apparatus further comprises an ARS for the called subscriber to input the specific information as a voice.

15

22. The apparatus for transmitting personal information in a subscriber-based ringback tone service as claimed in claim 19, characterized in that the specific information includes at least one of the called subscriber's phone number, name, nickname and character.

20

23. The apparatus for transmitting personal information in a subscriber-based ringback tone service as claimed in claim 19, characterized in that the web server further comprises a voice modulation device for modulating the personal information sound to various voices.

24. The voice modulation device as claimed in claim 23, characterized in that the personal information sound is outputted as a voice to a melody.